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500,000 in Key STN Databases
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NEWS 11 JUN 18 DWPI: New coverage - French Granted Patents
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(1969-2009)
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of Biofuel Research Reveal China Now Atop U.S. in
Patenting and Commercialization of Bioethanol
NEWS 17 JUN 29 Enhanced Batch Search Options in DGENE, USGENE,
and PCTGEN
NEWS 18 JUL 19 Enhancement of citation information in INPADOC
databases provides new, more efficient competitor
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NEWS 19 JUL 26 CAS coverage of global patent authorities has
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NEWS 20 SEP 09 New basic patent number increases precision in
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FILE COVERS 1907 - 10 Sep 2010 VOL 153 ISS 12

FILE LAST UPDATED: 9 Sep 2010 (20100909/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2010

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2010

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2010.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s (noncrosslinked or non-crosslinked or non (2a) cross (2a) linked) (5a) gelatin and (crosslinked or cross (2a) linked or cross-linked) (5a) gelatin

1329 NONCROSSLINKED
1181495 NON
39 NONS
1181525 NON
(NON OR NONS)
131318 CROSSLINKED
1093 NON-CROSSLINKED
(NON(W)CROSSLINKED)
1181495 NON
39 NONS

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1181525 NON
      (NON OR NONS)
639239 CROSS
25354  CROSSES
660869 CROSS
      (CROSS OR CROSSES)
346012 LINKED
      1 LINKEDS
346012 LINKED
      (LINKED OR LINKEDS)
79322  GELATIN
39507  GELATINS
94998  GELATIN
      (GELATIN OR GELATINS)
      18 (NONCROSSLINKED OR NON-CROSSLINKED OR NON (2A) CROSS (2A) LINKED
          ) (5A) GELATIN
131318 CROSSLINKED
639239 CROSS
25354  CROSSES
660869 CROSS
      (CROSS OR CROSSES)
346012 LINKED
      1 LINKEDS
346012 LINKED
      (LINKED OR LINKEDS)
639239 CROSS
25354  CROSSES
660869 CROSS
      (CROSS OR CROSSES)
346012 LINKED
      1 LINKEDS
346012 LINKED
      (LINKED OR LINKEDS)
32550  CROSS-LINKED
      (CROSS(W)LINKED)
79322  GELATIN
39507  GELATINS
94998  GELATIN
      (GELATIN OR GELATINS)
      1526 (CROSSLINKED OR CROSS (2A) LINKED OR CROSS-LINKED) (5A) GELATIN
L1      16 (NONCROSSLINKED OR NON-CROSSLINKED OR NON (2A) CROSS (2A) LINKED
          ) (5A) GELATIN AND (CROSSLINKED OR CROSS (2A) LINKED OR CROSS-LI
          NKED) (5A) GELATIN

=>

=> s (noncrosslinked or non-crosslinked or non (2a) cross (2a) linked) (p)
(crosslinked or cross (2a) linked or cross-linked) (p) gelatin
      1329 NONCROSSLINKED
1181495 NON
      39 NONS
1181525 NON
      (NON OR NONS)
131318 CROSSLINKED
1093   NON-CROSSLINKED
      (NON(W)CROSSLINKED)
1181495 NON
      39 NONS
1181525 NON
      (NON OR NONS)
639239 CROSS
25354  CROSSES

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660869 CROSS
      (CROSS OR CROSSES)
346012 LINKED
      1 LINKEDS
346012 LINKED
      (LINKED OR LINKEDS)
131318 CROSSLINKED
639239 CROSS
25354 CROSSES
660869 CROSS
      (CROSS OR CROSSES)
346012 LINKED
      1 LINKEDS
346012 LINKED
      (LINKED OR LINKEDS)
639239 CROSS
25354 CROSSES
660869 CROSS
      (CROSS OR CROSSES)
346012 LINKED
      1 LINKEDS
346012 LINKED
      (LINKED OR LINKEDS)
32550 CROSS-LINKED
      (CROSS(W)LINKED)
79322 GELATIN
39507 GELATINS
94998 GELATIN
      (GELATIN OR GELATINS)
L2      41 (NONCROSSLINKED OR NON-CROSSLINKED OR NON (2A) CROSS (2A) LINKED
      ) (P) (CROSSLINKED OR CROSS (2A) LINKED OR CROSS-LINKED) (P)
      GELATIN

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=> s (noncrosslinked or non-crosslinked or non (2a) cross (2a) linked) (p)
(crosslinked or cross (2a) linked or cross-linked) (p) gelatin (p) mixture

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1329 NONCROSSLINKED
1181495 NON
      39 NONS
1181525 NON
      (NON OR NONS)
131318 CROSSLINKED
1093 NON-CROSSLINKED
      (NON(W)CROSSLINKED)
1181495 NON
      39 NONS
1181525 NON
      (NON OR NONS)
639239 CROSS
25354 CROSSES
660869 CROSS
      (CROSS OR CROSSES)
346012 LINKED
      1 LINKEDS
346012 LINKED
      (LINKED OR LINKEDS)
131318 CROSSLINKED
639239 CROSS
25354 CROSSES
660869 CROSS
      (CROSS OR CROSSES)
346012 LINKED
      1 LINKEDS

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346012 LINKED
 (LINKED OR LINKEDS)
 639239 CROSS
 25354 CROSSES
 660869 CROSS
 (CROSS OR CROSSES)
 346012 LINKED
 1 LINKEDS
 346012 LINKED
 (LINKED OR LINKEDS)
 32550 CROSS-LINKED
 (CROSS(W)LINKED)
 79322 GELATIN
 39507 GELATINS
 94998 GELATIN
 (GELATIN OR GELATINS)
 124604 MIXTURE
 157674 MIXTURES
 275234 MIXTURE
 (MIXTURE OR MIXTURES)
 1645286 MIXT
 604632 MIXTS
 2029245 MIXT
 (MIXT OR MIXTS)
 2122398 MIXTURE
 (MIXTURE OR MIXT)
 L3 7 (NONCROSSLINKED OR NON-CROSSLINKED OR NON (2A) CROSS (2A) LINKED
) (P) (CROSSLINKED OR CROSS (2A) LINKED OR CROSS-LINKED) (P)
 GELATIN (P) MIXTURE

=> d 13 ibib kwic 1-
 YOU HAVE REQUESTED DATA FROM 7 ANSWERS - CONTINUE? Y/(N):y

L3 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2010 ACS ON STN
 ACCESSION NUMBER: 2010:423421 HCAPLUS
 TITLE: Protein-based films cross-linked with
 1-ethyl-3-(3-dimethylamino-propyl) carbodiimide
 hydrochloride (EDC): effects of the cross-linker and
 film composition on the permeation rate of
 p-hydroxyacetanilide as a model drug
 AUTHOR(S): Cristiano, Claudia M. Z.; Fayad, Samira J.; Porto,
 Ledilege C.; Soldi, Valdir
 CORPORATE SOURCE: Grupo de Estudos em Materiais Polimericos (POLIMAT),
 Departamento de Quimica, Universidade Federal de Santa
 Catarina, Florianopolis, 88040-900, Brazil
 SOURCE: Journal of the Brazilian Chemical Society (2010),
 21(2), 340-348
 CODEN: JOCSET; ISSN: 0103-5053
 PUBLISHER: Sociedade Brasileira de Quimica
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
 AB Cross-linked films of gelatin (Gel), casein
 (Cas) and their (1:1, m/m) mixt. (Gel/Cas) were studied in terms
 of their thermal, morphol. and water absorption properties and the
 permeation profile of p-hydroxyacetanilide (p-HAA). . .
 1-ethyl-3-(3-dimethylaminopropyl) carbodiimide hydrochloride (EDC) were
 90.6% for Gel films and approx. 70% for Cas and Gel/Cas films. The
 totally sol. non cross-linked films achieved
 only 21 - 22% of soly. after crosslinking with EDC. Despite the high

crosslinking degree, the swelling of. . . detd. for Gel/Cas and Cas films. The permeation rate of p-HAA followed the order Gel > Gel/Cas .simeq. Cas for cross-linked films, which is consistent with the Gel film showing a greater swelling than the other two systems studied. Lower permeation. . .

L3 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2010 ACS ON STN

ACCESSION NUMBER: 2006:726846 HCAPLUS

DOCUMENT NUMBER: 145:334442

TITLE: Some physical properties of crosslinked

AUTHOR(S): gelatin-maltodextrin hydrogels
Nickerson, M. T.; Paulson, A. T.; Wagar, E.;

CORPORATE SOURCE: Farnworth, R.; Hodge, S. M.; Rousseau, D.
Department of Food Science and Technology, Dalhousie
University, Halifax, NS, B3J 2X4, Can.

SOURCE: Food Hydrocolloids (2006), 20(7), 1072-1079

CODEN: FOHYES; ISSN: 0268-005X

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS
RECORD (11 CITINGS)

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB The phys. properties and morphol. of phase-sepd. gelatin
-maltodextrin (MD) systems, cross-linked by
non-toxic, biocompatible fixatives, were investigated as a
function of pH (3, 5 or 7) and MD concn. (0-12% wt./wt.), at a const.
gelatin concn. (10% wt./wt.). Gelatin was cross
-linked by sodium tripolyphosphate (TPP), genipin (GP), a GP/TPP
mixt. or by glutaraldehyde (used as a std.). Confocal laser
scanning microscopy of all mixed gels at pH 3 revealed the. . . except
in the presence of TPP. Phase sepn. was likely inhibited by reduced
network elasticity, increased entropic contribution of the mixt.
and minimal fixative-polymer interaction at this pH. Hydrogels under
these conditions were weaker (i.e., lower elastic modulus) and swelled
more. . . pH 7, phase sepn. was evident, where numerous MD inclusions
of various diams. (<50 .mu.m) became kinetically trapped within the
gelatin-continuous network. In general, the extent of phase sepn.
increased as MD concn. increased. Overall, GP cross-
linked networks were strongest at pH 7, whereas TPP fixation gave
the strongest gels at low pH. The addn. of TPP to GP cross-
linked hydrogels lead to a large increase in elastic modulus, esp.
near the isoelec. point of gelatin (.apprx.pH 7-9). By
controlling compn., pH and crosslinker, tailored hydrogel morphologies and
phys. properties were obtained.

L3 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2010 ACS ON STN

ACCESSION NUMBER: 2004:905601 HCAPLUS

DOCUMENT NUMBER: 141:355427

TITLE: Hemoactive compositions containing polymers

INVENTOR(S): Reich, Cary J.; Osawa, A. Edward; Tran, Helen

PATENT ASSIGNEE(S): Fusion Medical Technologies, Inc., USA; Baxter
International Inc.; Baxter Healthcare S.A.

SOURCE: U.S. Pat. Appl. Publ., 11 pp., Cont.-in-part of U.S.
Ser. No. 553,969.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20040214770	A1	20041028	US 2004-761922	20040120
US 7320962	B2	20080122		
US 6066325	A	20000523	US 1998-32370	19980227
US 20020042378	A1	20020411	US 1999-330315	19990610
US 6706690	B2	20040316		
US 20020193448	A1	20021219	US 2000-553969	20000421
JP 2006231090	A	20060907	JP 2006-157904	20060606
JP 2009256391	A	20091105	JP 2009-187571	20090812
JP 2010148922	A	20100708	JP 2010-68924	20100324

PRIORITY APPLN. INFO.:

US 1996-704852	B2	19960827
US 1997-50437P	P	19970618
US 1997-903674	A2	19970731
US 1998-32370	A1	19980227
US 1999-330315	A2	19990610
US 2000-553969	A2	20000421
JP 1998-511970	A3	19970814
JP 2001-502866	A3	20000609

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)

REFERENCE COUNT: 65 THERE ARE 65 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB Dried hemoactive materials comprise both a crosslinked biol. compatible polymer and a noncrosslinked biol. compatible polymer. The crosslinked polymer is selected to form a hydrogel when exposed to blood. The non-crosslinked polymer is chosen to solubilize relatively rapidly when exposed to blood. The non-cross-linked polymer serves as a binder for holding the materials in desired geometries, such as sheets, pellets, plugs, or the like. Usually, the crosslinked polymer will be present in a particulate or fragmented form. The materials are particularly suitable for hemostasis and drug delivery... activated clotting time (ACT) of the animal to approx. 3-5-fold its baseline value. A piece of the lyophilized composite material, cross-linked gelatin particles and PEG, was applied to the lesion with compression for 2 min. After compression was removed, no bleeding was. . . 1 min. After compression was removed, no further bleeding was obsd. and the lesion appeared to be sealed with a mixt. of clotted blood and the applied composite material.

L3 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2000:900474 HCAPLUS

DOCUMENT NUMBER: 134:46867

TITLE: Hemoactive compositions and methods for their manufacture and use

INVENTOR(S): Reich, Cary J.; Osawa, A. Edward; Tran, Helen

PATENT ASSIGNEE(S): Fusion Medical Technologies, Inc., USA

SOURCE: PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000076533	A1	20001221	WO 2000-US15998	20000609
W: JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				

US 20020042378	A1	20020411	US 1999-330315	19990610
US 6706690	B2	20040316		
EP 1185288	A1	20020313	EP 2000-942742	20000609
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2003501215	T	20030114	JP 2001-502866	20000609
JP 2010148922	A	20100708	JP 2010-68924	20100324
PRIORITY APPLN. INFO.:			US 1999-330315	A 19990610
			JP 2001-502866	A3 20000609
			WO 2000-US15998	W 20000609

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB Dried hemoactive materials comprise both a crosslinked biol. compatible polymer and a non-crosslinked biol. compatible polymer. The crosslinked polymer is selected to form a hydrogel when exposed to blood. The non-crosslinked polymer is chosen to solubilize relatively rapidly when exposed to blood. The non-crosslinked polymer serves as a binder for holding the materials in desired geometries, such as sheets, pellets, plugs, or the like. Usually, the crosslinked polymer will be present in a particulate or fragmented form. The materials are particularly suitable for hemostasis and drug delivery. Examples are given for prodn. of uncrosslinked gelatin powder, prodn. of lyophilized composite mixt. of crosslinked and uncrosslinked biopolymer in sheet form, and used of lyophilized composite material as a hemostatic.

L3 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2010 ACS ON STN

ACCESSION NUMBER: 1998:570222 HCAPLUS
DOCUMENT NUMBER: 129:293822
ORIGINAL REFERENCE NO.: 129:59855a,59858a
TITLE: .beta.-Glucuronidase activity following complex coacervation and spray drying microencapsulation
Burgess, D. J.; Ponsart, S.
AUTHOR(S):
CORPORATE SOURCE: Dep. Pharmaceutical Sciences, School Pharmacy, University Connecticut, Storrs, CT, 06269, USA
SOURCE: Journal of Microencapsulation (1998), 15(5), 569-579
CODEN: JOMIEF; ISSN: 0265-2048
PUBLISHER: Taylor & Francis Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB . . . controlled release of an active protein drug.
.beta.-Glucuronidase was selected as a model protein and a combination of complex coacervation (gelatin/sodium alginate, gelatin /acacia and albumin/acacia) and spray drying was investigated. Coacervates were either spray dried or glutaraldehyde crosslinked to form microcapsules. Polyvinylpyrrolidone (PVP) and polyethylene glycol were investigated as potential coacervate enhancers and stabilizers. .beta.-Glucuronidase/polymer mixts. were spray dried to det. any polymer protective effects on protein activity. A BUCHI 190 Spray Drier was used. .beta.-glucuronidase activity was detd. using a Sigma Kit and microcapsule particle size was measured by Accusizer anal. (light blockage). All non-crosslinked coacervates investigated, with the exceptions of albumin/acacia and albumin/acacia/.beta.-glucuronidase/PVP, were unsuitable for spray drying

as they rapidly phase sepd. and. . . activities of approx. 30% and 68% when spray dried alone and with albumin, resp., and of 18% in albumin/acacia microcapsules crosslinked with glutaraldehyde. Microcapsule particle size was affected by coacervation pH, additives and spray drying. In vitro .beta.-glucuronidase release was biphasic, . . .

L3 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1994:599526 HCAPLUS
DOCUMENT NUMBER: 121:199526
ORIGINAL REFERENCE NO.: 121:36167a, 36170a
TITLE: Preparation of gelatin carriers for immobilized enzymes
INVENTOR(S): Yamamoto, Yoshe
PATENT ASSIGNEE(S): Japan Vilene Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05308969	A	19931122	JP 1992-146177	19920513
PRIORITY APPLN. INFO.:			JP 1992-146177	19920513

AB An enzyme carrier is prepd. which is comprised of reinforced gelatin gel that contains enzyme and the gel is further covered with a crosslinked gelatin shell. The carrier is prepd. by gelation of a mixt. of gelatin colloid soln., enzymes, and a substance for reinforcement, followed by crosslinking the outer layer of the gel. The prepn. protects the enzyme activities reside in the non-crosslinked gel by crosslinked shell and thus ensures repetitive use. Prepn. of the glucoamylase-contg. gelatin carrier was shown.

L3 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1992:598599 HCAPLUS
DOCUMENT NUMBER: 117:198599
ORIGINAL REFERENCE NO.: 117:34153a, 34156a
TITLE: A biologically derived medical adhesive containing collagen or gelatin and its uses
INVENTOR(S): Bowyer, Barry L.; Robin, Jeffrey; Terry, Richard N.; Garg, Atul K.
PATENT ASSIGNEE(S): Bausch and Lomb Inc., USA
SOURCE: PCT Int. Appl., 31 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9213578	A1	19920820	WO 1991-US9638	19911219
W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MW, NO, PL, RO, SD, SU				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
CA 2103728	A1	19920812	CA 1991-2103728	19911219
AU 9212498	A	19920907	AU 1992-12498	19911219
AU 652808	B2	19940908		
EP 563331	A1	19931006	EP 1992-904917	19911219
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, SE				

NO 9302838	A	19930810	NO 1993-2838	19930810
PRIORITY APPLN. INFO.:			US 1991-653602	A 19910211
			WO 1991-US9638	A 19911219

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB An adhesive compn. suited for surgical applications comprises an aq. soln. of collagen or gelatin which has a melt index temp. of 33-60.degree. achieved by mixing blends of thermally crosslinked and non-crosslinked biopolymers. The adhesive also contains an antibiotic. A portion of 10% by wt. porcine scleral collagen was dried and heated to 145.degree. for 60 min to produce densely crosslinked material. A sec. portion was similarly treated for 15 min at 145.degree. and served as a noncrosslinked sample. A mixt. comprising 5% of noncrosslinked and 95% crosslinked material was dild. to various solid concns. (12.5, 15, 20, and 30% collagen) to obtain compns. with different bonding strengths.

=> s (noncrosslinked or non-crosslinked or non (2a) cross (2a) linked) (p) gelatin and (swollen or colloid or hydrocolloid or colloidal) (5a) (crosslinked or cross (2a) linked or cross-linked) (p) gelatin

1329 NONCROSSLINKED
 1181495 NON
 39 NONS
 1181525 NON
 (NON OR NONS)
 131318 CROSSLINKED
 1093 NON-CROSSLINKED
 (NON(W)CROSSLINKED)
 1181495 NON
 39 NONS
 1181525 NON
 (NON OR NONS)
 639239 CROSS
 25354 CROSSES
 660869 CROSS
 (CROSS OR CROSSES)
 346012 LINKED
 1 LINKEDS
 346012 LINKED
 (LINKED OR LINKEDS)
 79322 GELATIN
 39507 GELATINS
 94998 GELATIN
 (GELATIN OR GELATINS)
 50 (NONCROSSLINKED OR NON-CROSSLINKED OR NON (2A) CROSS (2A) LINKED) (P) GELATIN
 21765 SWOLLEN
 58965 COLLOID
 59920 COLLOIDS
 94759 COLLOID
 (COLLOID OR COLLOIDS)
 2068 HYDROCOLLOID
 2588 HYDROCOLLOIDS
 3350 HYDROCOLLOID
 (HYDROCOLLOID OR HYDROCOLLOIDS)
 146218 COLLOIDAL
 32 COLLOIDALS
 146231 COLLOIDAL
 (COLLOIDAL OR COLLOIDALS)

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131318 CROSSLINKED
639239 CROSS
25354 CROSSES
660869 CROSS
      (CROSS OR CROSSES)
346012 LINKED
  1 LINKEDS
346012 LINKED
      (LINKED OR LINKEDS)
639239 CROSS
25354 CROSSES
660869 CROSS
      (CROSS OR CROSSES)
346012 LINKED
  1 LINKEDS
346012 LINKED
      (LINKED OR LINKEDS)
32550 CROSS-LINKED
      (CROSS(W) LINKED)
79322 GELATIN
39507 GELATINS
94998 GELATIN
      (GELATIN OR GELATINS)
L4      29 (SWOLLEN OR COLLOID OR HYDROCOLLOID OR COLLOIDAL) (5A) (CROSSLINKED OR CROSS (2A) LINKED OR CROSS-LINKED) (P) GELATIN
      0 (NONCROSSLINKED OR NON-CROSSLINKED OR NON (2A) CROSS (2A) LINKED ) (P) GELATIN AND (SWOLLEN OR COLLOID OR HYDROCOLLOID OR COLLOIDAL) (5A) (CROSSLINKED OR CROSS (2A) LINKED OR CROSS-LINKED) (P) GELATIN

=> s (noncrosslinked or non-crosslinked or non (2a) cross (2a) linked) (p) gelatin
and (gel or gelled) (5a) (crosslinked or cross (2a) linked or cross-linked) (p)
gelatin
      1329 NONCROSSLINKED
1181495 NON
      39 NONS
1181525 NON
      (NON OR NONS)
131318 CROSSLINKED
1093 NON-CROSSLINKED
      (NON(W)CROSSLINKED)
1181495 NON
      39 NONS
1181525 NON
      (NON OR NONS)
639239 CROSS
25354 CROSSES
660869 CROSS
      (CROSS OR CROSSES)
346012 LINKED
  1 LINKEDS
346012 LINKED
      (LINKED OR LINKEDS)
79322 GELATIN
39507 GELATINS
94998 GELATIN
      (GELATIN OR GELATINS)
      50 (NONCROSSLINKED OR NON-CROSSLINKED OR NON (2A) CROSS (2A) LINKED ) (P) GELATIN
605094 GEL
126693 GELS
654793 GEL

```

(GEL OR GELS)
 11754 GELLED
 131318 CROSSLINKED
 639239 CROSS
 25354 CROSSES
 660869 CROSS
 (CROSS OR CROSSES)
 346012 LINKED
 1 LINKEDS
 346012 LINKED
 (LINKED OR LINKEDS)
 639239 CROSS
 25354 CROSSES
 660869 CROSS
 (CROSS OR CROSSES)
 346012 LINKED
 1 LINKEDS
 346012 LINKED
 (LINKED OR LINKEDS)
 32550 CROSS-LINKED
 (CROSS(W)LINKED)
 79322 GELATIN
 39507 GELATINS
 94998 GELATIN
 (GELATIN OR GELATINS)
 178 (GEL OR GELLED) (5A) (CROSSLINKED OR CROSS (2A) LINKED OR CROSS
 -LINKED) (P) GELATIN
 L5 4 (NONCROSSLINKED OR NON-CROSSLINKED OR NON (2A) CROSS (2A) LINKED
) (P) GELATIN AND (GEL OR GELLED) (5A) (CROSSLINKED OR CROSS
 (2A) LINKED OR CROSS-LINKED) (P) GELATIN

=> d l5 ibib 1-
 YOU HAVE REQUESTED DATA FROM 4 ANSWERS - CONTINUE? Y/(N):y

L5 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2010:423421 HCAPLUS
 TITLE: Protein-based films cross-linked with
 1-ethyl-3-(3-dimethylamino-propyl) carbodiimide
 hydrochloride (EDC): effects of the cross-linker and
 film composition on the permeation rate of
 p-hydroxyacetanilide as a model drug
 AUTHOR(S): Cristiano, Claudia M. Z.; Fayad, Samira J.; Porto,
 Ledilege C.; Soldi, Valdir
 CORPORATE SOURCE: Grupo de Estudos em Materiais Polimericos (POLIMAT),
 Departamento de Quimica, Universidade Federal de Santa
 Catarina, Florianopolis, 88040-900, Brazil
 SOURCE: Journal of the Brazilian Chemical Society (2010),
 21(2), 340-348
 CODEN: JOCSET; ISSN: 0103-5053
 PUBLISHER: Sociedade Brasileira de Quimica
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2005:481790 HCAPLUS
 DOCUMENT NUMBER: 144:177204
 TITLE: Bio-sorption of acidic gelatine hydro-gels implanted
 in the back tissues of Fisher's rats
 AUTHOR(S): Taira, M.; Furuuchi, H.; Saitoh, S.; Sugiyama, Y.;

CORPORATE SOURCE: Sekiyama, S.; Araki, Y.; Tabata, Y.
 Department of Dental Materials Science and Technology,
 Iwate Medical University School of Dentistry, Iwate,
 Japan
 SOURCE: Journal of Oral Rehabilitation (2005), 32(5), 382-387
 CODEN: JORHBY; ISSN: 0305-182X
 PUBLISHER: Blackwell Publishing Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
 (1 CITINGS)
 REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2000:343349 HCAPLUS
 DOCUMENT NUMBER: 133:168312
 TITLE: In vivo and in vitro release of lysozyme from
 cross-linked gelatin hydrogels: a model system for the
 delivery of antibacterial proteins from prosthetic
 heart valves
 AUTHOR(S): Kuijpers, A. J.; van Wachem, , P. B.; van Luyn, , M.
 J. A.; Engbers, G. H. M.; Krijgsveld, J.; Zaat, S. A.
 J.; Dankert, J.; Feijen, J.
 CORPORATE SOURCE: Institute of Biomedical Technology, Department of
 Chemical Technology, University of Twente, Enschede,
 7500 AE, Neth.
 SOURCE: Journal of Controlled Release (2000), 67(2-3), 323-336
 CODEN: JCREEC; ISSN: 0168-3659
 PUBLISHER: Elsevier Science Ireland Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OS.CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD
 (9 CITINGS)
 REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1994:599526 HCAPLUS
 DOCUMENT NUMBER: 121:199526
 ORIGINAL REFERENCE NO.: 121:36167a,36170a
 TITLE: Preparation of gelatin carriers for immobilized
 enzymes
 INVENTOR(S): Yamamoto, Yoshe
 PATENT ASSIGNEE(S): Japan Vilene Co Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05308969	A	19931122	JP 1992-146177	19920513
PRIORITY APPLN. INFO.:			JP 1992-146177	19920513

=>

=> d 15 4 ibib kwic

L5 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1994:599526 HCAPLUS
 DOCUMENT NUMBER: 121:199526
 ORIGINAL REFERENCE NO.: 121:36167a,36170a
 TITLE: Preparation of gelatin carriers for immobilized enzymes
 INVENTOR(S): Yamamoto, Yoshe
 PATENT ASSIGNEE(S): Japan Vilene Co Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05308969	A	19931122	JP 1992-146177	19920513
PRIORITY APPLN. INFO.:			JP 1992-146177	19920513

AB An enzyme carrier is prepd. which is comprised of reinforced gelatin gel that contains enzyme and the gel is further covered with a crosslinked gelatin shell. The carrier is prepd. by gelation of a mixt. of gelatin colloid soln., enzymes, and a substance for reinforcement, followed by crosslinking the outer layer of the gel. The prepn. protects the enzyme activities reside in the non-crosslinked gel by crosslinked shell and thus ensures repetitive use. Prepn. of the glucoamylase-contg. gelatin carrier was shown.

=> d his full

(FILE 'HOME' ENTERED AT 09:45:57 ON 10 SEP 2010)

FILE 'HCAPLUS' ENTERED AT 09:49:11 ON 10 SEP 2010

L1 16 SEA ABB=ON PLU=ON (NONCROSSLINKED OR NON-CROSSLINKED OR NON (2A) CROSS (2A) LINKED) (5A) GELATIN AND (CROSSLINKED OR CROSS (2A) LINKED OR CROSS-LINKED) (5A) GELATIN

L2 41 SEA ABB=ON PLU=ON (NONCROSSLINKED OR NON-CROSSLINKED OR NON (2A) CROSS (2A) LINKED) (P) (CROSSLINKED OR CROSS (2A) LINKED OR CROSS-LINKED) (P) GELATIN

L3 7 SEA ABB=ON PLU=ON (NONCROSSLINKED OR NON-CROSSLINKED OR NON (2A) CROSS (2A) LINKED) (P) (CROSSLINKED OR CROSS (2A) LINKED OR CROSS-LINKED) (P) GELATIN (P) MIXTURE
 D L3 IBIB KWIC 1-

L4 0 SEA ABB=ON PLU=ON (NONCROSSLINKED OR NON-CROSSLINKED OR NON (2A) CROSS (2A) LINKED) (P) GELATIN AND (SWOLLEN OR COLLOID OR HYDROCOLLOID OR COLLOIDAL) (5A) (CROSSLINKED OR CROSS (2A) LINKED OR CROSS-LINKED) (P) GELATIN

L5 4 SEA ABB=ON PLU=ON (NONCROSSLINKED OR NON-CROSSLINKED OR NON (2A) CROSS (2A) LINKED) (P) GELATIN AND (GEL OR GELLED) (5A) (CROSSLINKED OR CROSS (2A) LINKED OR CROSS-LINKED) (P) GELATIN
 D L5 IBIB 1-
 D L5 4 IBIB KWIC

FILE HOME

FILE HCAPLUS

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FILE LAST UPDATED: 9 Sep 2010 (20100909/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2010

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2010.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> s (noncrosslinked or non-crosslinked or non (2a) cross (2a) linked) (p) gelatin
and (fragment or fragmented or disrupted or particle or particulate) (p) (gel or
gelled) (5a) (crosslinked or cross (2a) linked or cross-linked) (p) gelatin
1329 NONCROSSLINKED
1181495 NON
39 NONS
1181525 NON
(NON OR NONS)
131318 CROSSLINKED
1093 NON-CROSSLINKED
(NON(W)CROSSLINKED)
1181495 NON
39 NONS
1181525 NON
(NON OR NONS)
639239 CROSS
25354 CROSSES
660869 CROSS
(CROSS OR CROSSES)
346012 LINKED
1 LINKEDS
346012 LINKED
(LINKED OR LINKEDS)
79322 GELATIN
39507 GELATINS
94998 GELATIN
(GELATIN OR GELATINS)
50 (NONCROSSLINKED OR NON-CROSSLINKED OR NON (2A) CROSS (2A) LINKED
) (P) GELATIN
241722 FRAGMENT
230941 FRAGMENTS
412778 FRAGMENT
(FRAGMENT OR FRAGMENTS)
11212 FRAGMENTED
35774 DISRUPTED
948523 PARTICLE
1002461 PARTICLES
1547396 PARTICLE
(PARTICLE OR PARTICLES)
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130082 PARTICULATE
 25315 PARTICULATES
 142815 PARTICULATE
 (PARTICULATE OR PARTICULATES)

605094 GEL
 126693 GELS
 654793 GEL
 (GEL OR GELS)

11754 GELLED
 131318 CROSSLINKED
 639239 CROSS
 25354 CROSSES
 660869 CROSS
 (CROSS OR CROSSES)
 346012 LINKED
 1 LINKEDS
 346012 LINKED
 (LINKED OR LINKEDS)

639239 CROSS
 25354 CROSSES
 660869 CROSS
 (CROSS OR CROSSES)
 346012 LINKED
 1 LINKEDS
 346012 LINKED
 (LINKED OR LINKEDS)

32550 CROSS-LINKED
 (CROSS(W) LINKED)

79322 GELATIN
 39507 GELATINS
 94998 GELATIN

(GELATIN OR GELATINS)

10 (FRAGMENT OR FRAGMENTED OR DISRUPTED OR PARTICLE OR PARTICULATE)
 (P) (GEL OR GELLED) (5A) (CROSSLINKED OR CROSS (2A) LINKED
 OR CROSS-LINKED) (P) GELATIN

L6 0 (NONCROSSLINKED OR NON-CROSSLINKED OR NON (2A) CROSS (2A) LINKED
) (P) GELATIN AND (FRAGMENT OR FRAGMENTED OR DISRUPTED OR PARTICLE OR PARTICULATE) (P) (GEL OR GELLED) (5A) (CROSSLINKED OR CROSS (2A) LINKED OR CROSS-LINKED) (P) GELATIN

=> s (noncrosslinked or non-crosslinked or non (2a) cross (2a) linked) (p) gelatin
 and (fragment or fragmented or disrupted or particle or particulate) (p)
 (hydrated) (5a) (crosslinked or cross (2a) linked or cross-linked) (p) gelatin

1329 NONCROSSLINKED

1181495 NON

39 NONS

1181525 NON

(NON OR NONS)

131318 CROSSLINKED

1093 NON-CROSSLINKED

(NON(W)CROSSLINKED)

1181495 NON

39 NONS

1181525 NON

(NON OR NONS)

639239 CROSS

25354 CROSSES

660869 CROSS

(CROSS OR CROSSES)

346012 LINKED

1 LINKEDS

346012 LINKED

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        (LINKED OR LINKEDS)
79322 GELATIN
39507 GELATINS
94998 GELATIN
        (GELATIN OR GELATINS)
    50 (NONCROSSLINKED OR NON-CROSSLINKED OR NON (2A) CROSS (2A) LINKED
        ) (P) GELATIN
241722 FRAGMENT
230941 FRAGMENTS
412778 FRAGMENT
        (FRAGMENT OR FRAGMENTS)
    11212 FRAGMENTED
    35774 DISRUPTED
    948523 PARTICLE
1002461 PARTICLES
1547396 PARTICLE
        (PARTICLE OR PARTICLES)
    130082 PARTICULATE
    25315 PARTICULATES
    142815 PARTICULATE
        (PARTICULATE OR PARTICULATES)
    71668 HYDRATED
        1 HYDRATEDS
    71669 HYDRATED
        (HYDRATED OR HYDRATEDS)
    131318 CROSSLINKED
    639239 CROSS
    25354 CROSSES
    660869 CROSS
        (CROSS OR CROSSES)
    346012 LINKED
        1 LINKEDS
    346012 LINKED
        (LINKED OR LINKEDS)
    639239 CROSS
    25354 CROSSES
    660869 CROSS
        (CROSS OR CROSSES)
    346012 LINKED
        1 LINKEDS
    346012 LINKED
        (LINKED OR LINKEDS)
    32550 CROSS-LINKED
        (CROSS(W)LINKED)
79322 GELATIN
39507 GELATINS
94998 GELATIN
        (GELATIN OR GELATINS)
    0 (FRAGMENT OR FRAGMENTED OR DISRUPTED OR PARTICLE OR PARTICULATE)
        (P) (HYDRATED) (5A) (CROSSLINKED OR CROSS (2A) LINKED OR CROS
        S-LINKED) (P) GELATIN
L7    0 (NONCROSSLINKED OR NON-CROSSLINKED OR NON (2A) CROSS (2A) LINKED
        ) (P) GELATIN AND (FRAGMENT OR FRAGMENTED OR DISRUPTED OR PARTIC
        LE OR PARTICULATE) (P) (HYDRATED) (5A) (CROSSLINKED OR CROSS
        (2A) LINKED OR CROSS-LINKED) (P) GELATIN

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=> s (noncrosslinked or non-crosslinked or non (2a) cross (2a) linked) (p) gelatin
and (fragment or fragmented or disrupted or particle or particulate) (5a)
(crosslinked or cross (2a) linked or cross-linked) (p) gelatin
    1329 NONCROSSLINKED
1181495 NON
    39 NONS

```

1181525 NON
 (NON OR NONS)
 131318 CROSSLINKED
 1093 NON-CROSSLINKED
 (NON(W)CROSSLINKED)
 1181495 NON
 39 NONS
 1181525 NON
 (NON OR NONS)
 639239 CROSS
 25354 CROSSES
 660869 CROSS
 (CROSS OR CROSSES)
 346012 LINKED
 1 LINKEDS
 346012 LINKED
 (LINKED OR LINKEDS)
 79322 GELATIN
 39507 GELATINS
 94998 GELATIN
 (GELATIN OR GELATINS)
 50 (NONCROSSLINKED OR NON-CROSSLINKED OR NON (2A) CROSS (2A) LINKED
) (P) GELATIN
 241722 FRAGMENT
 230941 FRAGMENTS
 412778 FRAGMENT
 (FRAGMENT OR FRAGMENTS)
 11212 FRAGMENTED
 35774 DISRUPTED
 948523 PARTICLE
 1002461 PARTICLES
 1547396 PARTICLE
 (PARTICLE OR PARTICLES)
 130082 PARTICULATE
 25315 PARTICULATES
 142815 PARTICULATE
 (PARTICULATE OR PARTICULATES)
 131318 CROSSLINKED
 639239 CROSS
 25354 CROSSES
 660869 CROSS
 (CROSS OR CROSSES)
 346012 LINKED
 1 LINKEDS
 346012 LINKED
 (LINKED OR LINKEDS)
 639239 CROSS
 25354 CROSSES
 660869 CROSS
 (CROSS OR CROSSES)
 346012 LINKED
 1 LINKEDS
 346012 LINKED
 (LINKED OR LINKEDS)
 32550 CROSS-LINKED
 (CROSS(W)LINKED)
 79322 GELATIN
 39507 GELATINS
 94998 GELATIN
 (GELATIN OR GELATINS)
 87 (FRAGMENT OR FRAGMENTED OR DISRUPTED OR PARTICLE OR PARTICULATE)
 (5A) (CROSSLINKED OR CROSS (2A) LINKED OR CROSS-LINKED) (P)

L8 GELATIN
 3 (NONCROSSLINKED OR NON-CROSSLINKED OR NON (2A) CROSS (2A) LINKED
) (P) GELATIN AND (FRAGMENT OR FRAGMENTED OR DISRUPTED OR PARTIC
 LE OR PARTICULATE) (5A) (CROSSLINKED OR CROSS (2A) LINKED OR
 CROSS-LINKED) (P) GELATIN

=> d l8 ibib kwic 1-
 YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):y

L8 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2004:905601 HCAPLUS
 DOCUMENT NUMBER: 141:355427
 TITLE: Hemoactive compositions containing polymers
 INVENTOR(S): Reich, Cary J.; Osawa, A. Edward; Tran, Helen
 PATENT ASSIGNEE(S): Fusion Medical Technologies, Inc., USA; Baxter
 International Inc.; Baxter Healthcare S.A.
 SOURCE: U.S. Pat. Appl. Publ., 11 pp., Cont.-in-part of U.S.
 Ser. No. 553,969.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 7
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20040214770	A1	20041028	US 2004-761922	20040120
US 7320962	B2	20080122		
US 6066325	A	20000523	US 1998-32370	19980227
US 20020042378	A1	20020411	US 1999-330315	19990610
US 6706690	B2	20040316		
US 20020193448	A1	20021219	US 2000-553969	20000421
JP 2006231090	A	20060907	JP 2006-157904	20060606
JP 2009256391	A	20091105	JP 2009-187571	20090812
JP 2010148922	A	20100708	JP 2010-68924	20100324
PRIORITY APPLN. INFO.:			US 1996-704852	B2 19960827
			US 1997-50437P	P 19970618
			US 1997-903674	A2 19970731
			US 1998-32370	A1 19980227
			US 1999-330315	A2 19990610
			US 2000-553969	A2 20000421
			JP 1998-511970	A3 19970814
			JP 2001-502866	A3 20000609

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD
 (9 CITINGS)

REFERENCE COUNT: 65 THERE ARE 65 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB Dried hemoactive materials comprise both a crosslinked biol. compatible
 polymer and a noncrosslinked biol. compatible polymer. The
 crosslinked polymer is selected to form a hydrogel when exposed to blood.
 The non-crosslinked polymer is chosen to solubilize
 relatively rapidly when exposed to blood. The non-cross
 -linked polymer serves as a binder for holding the materials in
 desired geometries, such as sheets, pellets, plugs, or the like.. . .
 activated clotting time (ACT) of the animal to approx. 3-5-fold its
 baseline value. A piece of the lyophilized composite material,
 cross-linked gelatin particles and
 PEG, was applied to the lesion with compression for 2 min. After
 compression was removed, no bleeding was obsd.. . .

L8 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2002:47501 HCAPLUS

DOCUMENT NUMBER: 136:107226

TITLE: Agar or gelatin hydrogel matrix particles for skin cosmetics

INVENTOR(S): Sakai, Shigefumi; Kiba, Atsuyuki; Shigeno, Chitoshi; Kubo, Hideaki

PATENT ASSIGNEE(S): Kao Corporation, Japan

SOURCE: Eur. Pat. Appl., 28 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1172083	A2	20020116	EP 2001-114885	20010629
EP 1172083	A3	20020911		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002020227	A	20020123	JP 2000-198543	20000630
JP 3756042	B2	20060315		
JP 2002020228	A	20020123	JP 2000-199401	20000630
JP 3756043	B2	20060315		
JP 2002058990	A	20020226	JP 2000-245708	20000814
JP 3555937	B2	20040818		
US 20020034525	A1	20020321	US 2001-892577	20010628
JP 2002159838	A	20020604	JP 2001-241012	20010808
JP 3483543	B2	20040106		
US 20090155323	A1	20090618	US 2009-390390	20090220
PRIORITY APPLN. INFO.:				
			JP 2000-198543	A 20000630
			JP 2000-199401	A 20000630
			JP 2000-245708	A 20000814
			JP 2000-245709	A 20000814
			US 2001-892577	B3 20010628
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT				
OS.CITING REF COUNT:	9	THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (28 CITINGS)		
REFERENCE COUNT:	23	THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		
AB A skin cosmetic compn. comprises non-crosslinked hydrogel particles made of agar or gelatin in which an oil component is emulsified or dispersed. The oil component is a liq., e.g., polyglyceryl diisostearate, or solid. . .				
L8 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2010 ACS on STN				
ACCESSION NUMBER:	1988:556156	HCAPLUS		
DOCUMENT NUMBER:	109:156156			
ORIGINAL REFERENCE NO.:	109:25853a,25856a			
TITLE:	Optimization of controlled drug release through micropelletization			
AUTHOR(S):	Das, Sudip K.; Gupta, Bijan K.			
CORPORATE SOURCE:	Dep. Pharm., Jadavpur Univ., Calcutta, 700032, India			
SOURCE:	Drug Development and Industrial Pharmacy (1988), 14(12), 1673-97			
	CODEN: DDIPD8; ISSN: 0363-9045			
DOCUMENT TYPE:	Journal			
LANGUAGE:	English			
OS.CITING REF COUNT:	4	THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)		
AB Micropelletization technique using crosslinked gelatin matrix				

was chosen to evaluate its utility in controlled release medications. Trimethoprim, which has a very high soly. gradient in. . . selected. Micropellets were formed by the modified spray congealing technique. The effects of exposure of the crosslinking agents to the gelatin matrix of the micropellets on the effectivity as the controlled-release drug delivery system were investigated. The total product yield, content uniformity and the reproducibility of the successive batches were decidedly superior to either the pure drug or the noncrosslinked ones. Particle size distribution varied depending on the content of the crosslinked gelatin in the micropellets. Scanning electron micrographs confirmed the porous surface topog. of the micropellets. The drug release characteristics was suggested. . .

IT Particle size
(of crosslinked gelatin micropellets, controlled
drug release in relation to)

=> d his full

(FILE 'HOME' ENTERED AT 09:45:57 ON 10 SEP 2010)

FILE 'HCAPLUS' ENTERED AT 09:49:11 ON 10 SEP 2010

L1 16 SEA ABB=ON PLU=ON (NONCROSSLINKED OR NON-CROSSLINKED OR NON
(2A) CROSS (2A) LINKED) (5A) GELATIN AND (CROSSLINKED OR CROSS
(2A) LINKED OR CROSS-LINKED) (5A) GELATIN

L2 41 SEA ABB=ON PLU=ON (NONCROSSLINKED OR NON-CROSSLINKED OR NON
(2A) CROSS (2A) LINKED) (P) (CROSSLINKED OR CROSS (2A) LINKED
OR CROSS-LINKED) (P) GELATIN

L3 7 SEA ABB=ON PLU=ON (NONCROSSLINKED OR NON-CROSSLINKED OR NON
(2A) CROSS (2A) LINKED) (P) (CROSSLINKED OR CROSS (2A) LINKED
OR CROSS-LINKED) (P) GELATIN (P) MIXTURE
D L3 IBIB KWIC 1-

L4 0 SEA ABB=ON PLU=ON (NONCROSSLINKED OR NON-CROSSLINKED OR NON
(2A) CROSS (2A) LINKED) (P) GELATIN AND (SWOLLEN OR COLLOID
OR HYDROCOLLOID OR COLLOIDAL) (5A) (CROSSLINKED OR CROSS (2A)
LINKED OR CROSS-LINKED) (P) GELATIN

L5 4 SEA ABB=ON PLU=ON (NONCROSSLINKED OR NON-CROSSLINKED OR NON
(2A) CROSS (2A) LINKED) (P) GELATIN AND (GEL OR GELLED) (5A)
(CROSSLINKED OR CROSS (2A) LINKED OR CROSS-LINKED) (P) GELATIN
D L5 IBIB 1-
D L5 4 IBIB KWIC

L6 0 SEA ABB=ON PLU=ON (NONCROSSLINKED OR NON-CROSSLINKED OR NON
(2A) CROSS (2A) LINKED) (P) GELATIN AND (FRAGMENT OR FRAGMENTED
OR DISRUPTED OR PARTICLE OR PARTICULATE) (P) (GEL OR GELLED)
(5A) (CROSSLINKED OR CROSS (2A) LINKED OR CROSS-LINKED) (P)
GELATIN

L7 0 SEA ABB=ON PLU=ON (NONCROSSLINKED OR NON-CROSSLINKED OR NON
(2A) CROSS (2A) LINKED) (P) GELATIN AND (FRAGMENT OR FRAGMENTED
OR DISRUPTED OR PARTICLE OR PARTICULATE) (P) (HYDRATED) (5A)
(CROSSLINKED OR CROSS (2A) LINKED OR CROSS-LINKED) (P)
GELATIN

L8 3 SEA ABB=ON PLU=ON (NONCROSSLINKED OR NON-CROSSLINKED OR NON
(2A) CROSS (2A) LINKED) (P) GELATIN AND (FRAGMENT OR FRAGMENTED
OR DISRUPTED OR PARTICLE OR PARTICULATE) (5A) (CROSSLINKED
OR CROSS (2A) LINKED OR CROSS-LINKED) (P) GELATIN
D L8 IBIB KWIC 1-

FILE HOME

FILE HCAPLUS

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FILE COVERS 1907 - 10 Sep 2010 VOL 153 ISS 12
FILE LAST UPDATED: 9 Sep 2010 (20100909/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2010

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2010.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3 and polyoxyethylene
57172 POLYOXYETHYLENE
640 POLYOXYETHYLENES
57373 POLYOXYETHYLENE
(POLYOXYETHYLENE OR POLYOXYETHYLENES)
L9 0 L3 AND POLYOXYETHYLENE

=> s l3 and glucosaminoglycan
234 GLUCOSAMINOGLYCAN
185 GLUCOSAMINOGLYCANS
365 GLUCOSAMINOGLYCAN
(GLUCOSAMINOGLYCAN OR GLUCOSAMINOGLYCANS)
L10 0 L3 AND GLUCOSAMINOGLYCAN

=> s l3 and dextran
43811 DEXTRAN
4501 DEXTRANS
44741 DEXTRAN
(DEXTRAN OR DEXTRANS)
L11 0 L3 AND DEXTRAN

=> s (fragment or fragmented or disrupted or particle or particulate) (p)
(hydrogel or hydrocolloidal or hydrocolloid or hydrated) (5a) (crosslinked or cross (2a) linked or cross-linked) (p) gelatin
241722 FRAGMENT
230941 FRAGMENTS
412778 FRAGMENT
(FRAGMENT OR FRAGMENTS)
11212 FRAGMENTED
35774 DISRUPTED
948523 PARTICLE
1002461 PARTICLES
1547396 PARTICLE
(PARTICLE OR PARTICLES)
130082 PARTICULATE
25315 PARTICULATES
142815 PARTICULATE

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(PARTICULATE OR PARTICULATES)
28479 HYDROGEL
29151 HYDROGELS
36804 HYDROGEL
      (HYDROGEL OR HYDROGELS)
      95 HYDROCOLLOIDAL
      2068 HYDROCOLLOID
      2588 HYDROCOLLOIDS
      3350 HYDROCOLLOID
            (HYDROCOLLOID OR HYDROCOLLOIDS)
      71668 HYDRATED
      1 HYDRATEDS
      71669 HYDRATED
            (HYDRATED OR HYDRATEDS)
131318 CROSSLINKED
639239 CROSS
25354 CROSSES
660869 CROSS
      (CROSS OR CROSSES)
346012 LINKED
      1 LINKEDS
346012 LINKED
      (LINKED OR LINKEDS)
639239 CROSS
25354 CROSSES
660869 CROSS
      (CROSS OR CROSSES)
346012 LINKED
      1 LINKEDS
346012 LINKED
      (LINKED OR LINKEDS)
32550 CROSS-LINKED
      (CROSS(W)LINKED)
79322 GELATIN
39507 GELATINS
94998 GELATIN
      (GELATIN OR GELATINS)
L12      9 (FRAGMENT OR FRAGMENTED OR DISRUPTED OR PARTICLE OR PARTICULATE)
      (P) (HYDROGEL OR HYDROCOLLOIDAL OR HYDROCOLLOID OR HYDRATED)
      (5A) (CROSSLINKED OR CROSS (2A) LINKED OR CROSS-LINKED) (P)
      GELATIN

=> s l12 and (dextran or glycosaminoglycan or polysaccharide)
43811 DEXTRAN
4501 DEXTRANS
44741 DEXTRAN
      (DEXTRAN OR DEXTRANS)
12858 GLYCOSAMINOGLYCAN
16234 GLYCOSAMINOGLYCANS
19615 GLYCOSAMINOGLYCAN
      (GLYCOSAMINOGLYCAN OR GLYCOSAMINOGLYCANS)
76706 POLYSACCHARIDE
97552 POLYSACCHARIDES
122197 POLYSACCHARIDE
      (POLYSACCHARIDE OR POLYSACCHARIDES)
L13      3 L12 AND (DEXTRAN OR GLYCOSAMINOGLYCAN OR POLYSACCHARIDE)

=> d l13 ibib kwic 1-
YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):y

L13 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2010 ACS on STN

```

ACCESSION NUMBER: 2009:615598 HCAPLUS
 DOCUMENT NUMBER: 150:558360
 TITLE: Cryopreservation of cells using cross-linked bioactive hydrogel matrix particles
 INVENTOR(S): Klann, Richard C.; Lamberti, Francis V.; Hill, Ronald S.
 PATENT ASSIGNEE(S): Pioneer Surgical Orthobiologics, Inc., USA
 SOURCE: U.S. Pat. Appl. Publ., 29pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20090130756	A1	20090521	US 2008-274765	20081120
WO 2009067601	A1	20090528	WO 2008-US84196	20081120
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM EP 2222159 A1 20100901 EP 2008-852924 20081120 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, AL, BA, MK, RS				
PRIORITY APPLN. INFO.:			US 2007-989176P P 20071120	
			WO 2008-US84196 W 20081120	
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT				
IT	Aggrekans Collagens Decorins Entactin Fibrillins Fibulins Gelatins Glycoproteins Keratins Laminins Peptides Polysaccharides Proteins RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (cryopreservation of cells using cross-linked bioactive hydrogel matrix particles)			
IT	Polysaccharides RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (sulfated; cryopreservation of cells using cross-linked bioactive hydrogel matrix particles)			
IT	1398-61-4, Chitin 9000-07-1, Carrageenan 9004-34-6, Cellulose, biological studies 9004-54-0, Dextran, biological studies 9004-61-9, Hyaluronic acid 9005-25-8, Starch, biological studies			

9005-32-7, Alginic acid 9005-49-6, Heparin, biological studies
 9005-79-2, Glycogen, biological studies 9005-82-7, Amylose 9007-28-7,
 Chondroitin sulfate 9012-36-6, Agarose 9012-76-4, Chitosan
 9037-22-3, Amylopectin 9042-14-2, Dextran sulfate 9050-30-0
 9056-36-4, Keratan sulfate 24967-94-0, Dermatan sulfate 70226-44-7,
 Heparan 1000410-96-7, Polyglycan
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (cryopreservation of cells using cross-linked bioactive hydrogel matrix
 particles)

L13 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:956472 HCAPLUS
 TITLE: Smart membranes from stimuli-sensitive biopolymer
 hydrogel
 AUTHOR(S): Gopishetty, Venkateshwarlu; Tokarev, Ihor; Minko,
 Sergiy
 CORPORATE SOURCE: Department of Chemistry and Biomolecular Science,
 Clarkson University, Potsdam, NY, 13699-5810, USA
 SOURCE: Abstracts of Papers, 236th ACS National Meeting,
 Philadelphia, PA, United States, August 17-21, 2008
 (2008), PMSE-400. American Chemical Society:
 Washington, D. C.
 CODEN: 69KKQ2
 DOCUMENT TYPE: Conference; Meeting Abstract; (computer optical disk)
 LANGUAGE: English
 AB Responsive biopolymer hydrogel membranes were prepd. by salt-induced phase
 sepn. of polysaccharide (sodium alginate) and protein (gelatin). The membranes are biocompatible, biodegradable and were
 used as a platform for immobilization of metal nanoparticles and
 functional proteins. The tunable permeability of the crosslinked
 hydrogel membrane was investigated for the diffusion of a
 water-sol. dye across the membrane. The permeability of the dye mols. was
 monitored with a UV-Vis spectrophotometer and was found to be pH
 dependent. Incorporation of silver particles inside the
 hydrogel membrane was performed by the redn. of silver salt. The presence
 of silver particles was detected optically via the localized
 surface plasmon absorption band. The glucose-sensitivity of the membrane
 was enabled by chem. immobilization. . . .

L13 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2000:344042 HCAPLUS
 DOCUMENT NUMBER: 132:352803
 TITLE: Fragmented polymeric compositions and methods for
 their use
 INVENTOR(S): Wallace, Donald G.; Reich, Cary J.; Shargill, Narinder
 S.; Vega, Felix; Osawa, A. Edward
 PATENT ASSIGNEE(S): Fusion Medical Technologies, Inc., USA
 SOURCE: U.S., 20 pp., Cont.-in-part of U.S. Ser. No. 903,674.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 7
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 6066325	A	20000523	US 1998-32370	19980227
US 20020193448	A1	20021219	US 2000-553969	20000421
US 20040214770	A1	20041028	US 2004-761922	20040120
US 7320962	B2	20080122		
JP 2006231090	A	20060907	JP 2006-157904	20060606

US 20080085316	A1	20080410	US 2007-859312	20070921
JP 2009256391	A	20091105	JP 2009-187571	20090812
PRIORITY APPLN. INFO.:			US 1996-704852	B2 19960827
			US 1997-50437P	P 19970618
			US 1997-903674	A2 19970731
			JP 1998-511970	A3 19970814
			US 1998-32370	A1 19980227
			US 1999-330315	A2 19990610
			US 2000-553969	A2 20000421
			US 2001-908464	A2 20010717

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS
 RECORD (10 CITINGS)

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB Crosslinked hydrogels comprise a variety of biol. and non-biol. polymers, such as proteins, polysaccharides, and synthetic polymers. Such hydrogels preferably have no free aq. phase and may be applied to target sites in a patient's body by extruding the hydrogel through an orifice at the target site. Alternatively, the hydrogels may be mech. disrupted and used in implantable articles, such as breast implants. When used in vivo, the compns. are useful for controlled release. . . . tissue adhesions, for filling tissue divots, tissue tracts, body cavities, surgical defects, and the like. A product was prepd. from gelatin, NaOH and Na periodate to give swollen granules which were washed and dried and resuspended in solns. contg. Na phosphate. . . .

IT Polysaccharides, biological studies
 Proteins, general, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (fragmented polymeric compns. for implants and drug delivery)

=> s (wound healing) (p) (glycosaminoglycan)
 81106 WOUND
 12781 WOUNDS
 84977 WOUND
 (WOUND OR WOUNDS)
 52103 HEALING
 39 HEALINGS
 52122 HEALING
 (HEALING OR HEALINGS)
 32480 WOUND HEALING
 (WOUND(W)HEALING)
 12858 GLYCOSAMINOGLYCAN
 16234 GLYCOSAMINOGLYCANS
 19615 GLYCOSAMINOGLYCAN
 (GLYCOSAMINOGLYCAN OR GLYCOSAMINOGLYCANS)
 L14 281 (WOUND HEALING) (P) (GLYCOSAMINOGLYCAN)

=> s (wound healing) (p) (glycosaminoglycan) (gelatin)
 MISSING OPERATOR NOGLYCAN) (GELATIN
 The search profile that was entered contains terms or
 nested terms that are not separated by a logical operator.

=> s (wound healing) (p) (glycosaminoglycan) (p)) (gelatin)
 MISSING TERM 'P')) '
 The search profile that was entered contains a logical operator
 followed immediately by a right parenthesis ')'.
 => s (wound healing) (p) (glycosaminoglycan) (p) (gelatin)
 81106 WOUND

12781 WOUNDS
 84977 WOUND
 (WOUND OR WOUNDS)
 52103 HEALING
 39 HEALINGS
 52122 HEALING
 (HEALING OR HEALINGS)
 32480 WOUND HEALING
 (WOUND(W)HEALING)
 12858 GLYCOSAMINOGLYCAN
 16234 GLYCOSAMINOGLYCANS
 19615 GLYCOSAMINOGLYCAN
 (GLYCOSAMINOGLYCAN OR GLYCOSAMINOGLYCANS)
 79322 GELATIN
 39507 GELATINS
 94998 GELATIN
 (GELATIN OR GELATINS)

L15 5 (WOUND HEALING) (P) (GLYCOSAMINOGLYCAN) (P) (GELATIN)

=> s l15 and polyoxyethylene
 57172 POLYOXYETHYLENE
 640 POLYOXYETHYLENES
 57373 POLYOXYETHYLENE
 (POLYOXYETHYLENE OR POLYOXYETHYLENES)

L16 0 L15 AND POLYOXYETHYLENE

=> d l15 scan

L15 5 ANSWERS HCAPLUS COPYRIGHT 2010 ACS on STN
 IPCI A61L0027-00 [ICM,4]
 IPCR A61L0027-00 [I,C*]; A61L0027-00 [I,A]
 CC 63-7 (Pharmaceuticals)
 IT Crosslinked glycosaminoglycan composites as artificial organs
 ST artificial organ glycosaminoglycan collagen gelatin; skin artificial
 hyaluronate atelocollagen
 IT Gelatins, compounds
 RL: BIOL (Biological study)
 (composites with crosslinked glycosaminoglycans, for artificial organs)
 IT Surgical dressings and goods
 (crosslinked glycosaminoglycan composites as)
 IT Organ
 Skin
 (artificial, crosslinked glycosaminoglycan composites as)
 IT Collagens, compounds
 RL: BIOL (Biological study)
 (atelo-, composites with crosslinked glycosaminoglycans, for artificial
 organs)
 IT Mucopolysaccharides, compounds
 RL: BIOL (Biological study)
 (glycosaminoglycans, composites with collagens or gelatins, for
 artificial skin)
 IT 9005-49-6DP, composites with collagens or gelatins 9067-32-7DP,
 composites with collagens or gelatins 12678-07-8DP, composites with
 collagens or gelatins 24967-94-0DP, composites with collagens or
 gelatins 25322-46-7DP, composites with collagens or gelatins
 39455-18-0DP, composites with collagens or gelatins
 RL: PREP (Preparation)
 (prepn. of, for artificial organ)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):4

L15 5 ANSWERS HCAPLUS COPYRIGHT 2010 ACS on STN

CC 63-7 (Pharmaceuticals)

TI Vocal Fold Tissue Repair in Vivo Using a Synthetic Extracellular Matrix

ST synthetic extracellular matrix vocal fold tissue repair Carbylan GSX

IT Elasticity
(Carbylan-SX and Carbylan-GSX improved tissue elasticity in rabbit vocal fold wound healing model)

IT Viscosity
(Carbylan-SX and Carbylan-GSX improved tissue viscosity in rabbit vocal fold wound healing model)

IT Transforming growth factor .beta.
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(TGF.beta.1; expression level of transforming growth factor .beta.1 mRNA was not affected by Carbylan-SX and Carbylan-GSX in rabbit vocal fold wound healing model)

IT Extracellular matrix
(artificial; synthetic extracellular matrix Carbylan-GSX exhibited optimal biol. and biomech. properties and promoted wound repair and tissue regeneration in rabbit vocal fold wound healing model)

IT Fibromodulins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(expression level of fibromodulin mRNA was not affected by Carbylan-SX and Carbylan-GSX in rabbit vocal fold wound healing model)

IT Fibronectins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(expression level of fibronectin mRNA was not affected by Carbylan-SX and Carbylan-GSX in rabbit vocal fold wound healing model)

IT Collagens, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(procollagens, type I; expression level of procollagen type 1 mRNA was not affected by Carbylan-SX and Carbylan-GSX in rabbit vocal fold wound healing model)

IT Wound healing
(synthetic extracellular matrix Carbylan-GSX exhibited optimal biol. and biomech. properties and promoted wound repair and tissue regeneration in rabbit vocal fold wound healing model)

IT Larynx
(vocal cord; synthetic extracellular matrix Carbylan-GSX exhibited optimal biol. and biomech. properties and promoted wound repair and tissue regeneration in rabbit vocal fold wound healing model)

IT 37326-33-3, Hyaluronoglucosaminidase
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(Carbylan-GSX increased hyaluronidase 2 mRNA level in rabbit vocal fold wound healing model)

IT 855126-79-3, Carbylan SX
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Carbylan-SX was less effective than Carbylan-GSX in providing environment for wound healing in rabbit vocal fold wound healing model)

IT 39346-43-5, Hyaluronic acid synthase
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(expression level of hyaluronic acid synthase 2 mRNA was not affected by Carbylan-SX and Carbylan-GSX in rabbit vocal fold wound healing model)

IT 855126-78-2, Carbylan GSX
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(synthetic extracellular matrix Carbylan-GSX exhibited optimal biol. and biomech. properties and promoted wound repair and tissue regeneration in rabbit vocal fold wound healing model)

TI Oxidized Chondroitin Sulfate-Cross-Linked Gelatin Matrixes: A New Class of Hydrogels
 ST chondroitin sulfate gelatin crosslinking hydrogel
 IT Biocompatibility
 Crosslinking
 Hydrogels
 Swelling, physical
 Water vapor
 Wound healing
 (cross-linked hydrogel from oxidized chondroitin sulfate and gelatin)
 IT Gelatins, biological studies
 RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (cross-linked hydrogel from oxidized chondroitin sulfate and gelatin)
 IT Medical goods
 (dressings; cross-linked hydrogel from oxidized chondroitin sulfate and gelatin)
 IT Oxidation
 (periodate; cross-linked hydrogel from oxidized chondroitin sulfate and gelatin)
 IT 25322-46-7D, Chondroitin-6-sulfate, oxidized
 RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (cross-linked hydrogel from oxidized chondroitin sulfate and gelatin)
 L15 5 ANSWERS HCAPLUS COPYRIGHT 2010 ACS on STN
 CC 1-12 (Pharmacology)
 TI Hyaluronic acid induces wound closure by primary human skin fibroblasts in a wound healing model
 ST hyaluronic acid skin fibroblast migration wound healing
 IT Cell migration
 Fibroblast
 Human
 Wound healing
 (hyaluronic acid induced wound closure through regulating migration of human skin fibroblast by stimulating matrix metalloproteinase-2 expression in wound healing model)
 IT 146480-35-5, Matrix metalloproteinase-2
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (hyaluronic acid induced wound closure through regulating migration of human skin fibroblast by stimulating matrix metalloproteinase-2 expression in wound healing model)
 IT 9004-61-9, Hyaluronic acid
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (hyaluronic acid induced wound closure through regulating migration of human skin fibroblast by stimulating matrix metalloproteinase-2 expression in wound healing model)
 L15 5 ANSWERS HCAPLUS COPYRIGHT 2010 ACS on STN
 CC 1-12 (Pharmacology)
 TI Dermatan sulfate induces matrix metalloproteinase-2 and stimulates the migration of human primary fibroblasts
 ST dermatan sulfate hyaluronic acid chondroitin sulfate cell migration; matrix metalloproteinase2 wound healing promoter
 IT Cell migration
 Fibroblast
 Human
 Lung
 Wound healing
 Wound healing promoters
 (glycosaminoglycan dermatan sulfate, hyaluronic acid but not

chondroitin sulfate A or chondroitin sulfate B time, dose-dependently increased MMP-2 secretion and stimulated cell migration towards wound area in human lung fibroblast)

IT 24967-93-9, Chondroitin sulfate A
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (chondroitin sulfate A did not stimulated cell migration towards wound area in human lung fibroblast)

IT 25322-46-7, Chondroitin sulphate C
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (chondroitin sulfate B did not stimulated cell migration towards wound area in human lung fibroblast)

IT 146480-35-5, Matrix metalloproteinase-2
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (glycosaminoglycan dermatan sulfate, hyaluronic acid but not chondroitin sulfate A or chondroitin sulfate B time, dose-dependently increased MMP-2 secretion in human lung fibroblast)

IT 24967-94-0, Dermatan sulfate
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (glycosaminoglycan like dermatan sulfate time and dose-dependently increased MMP-2 secretion and stimulated cell migration towards wound area in human lung fibroblast)

IT 9004-61-9, Hyaluronic acid
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (glycosaminoglycan like hyaluronic acid time and dose-dependently increased MMP-2 secretion and stimulated cell migration towards wound area in human lung fibroblast)

ALL ANSWERS HAVE BEEN SCANNED

=> d l15 ibib kwic 1-
 YOU HAVE REQUESTED DATA FROM 5 ANSWERS - CONTINUE? Y/(N):y

L15 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2008:812052 HCAPLUS
 DOCUMENT NUMBER: 149:167878
 TITLE: Hyaluronic acid induces wound closure by primary human skin fibroblasts in a wound healing model
 AUTHOR(S): Economou, D.; Papakonstantinou, E.; Klagas, I.; Sakadamis, Ath.; Sioga, A.
 CORPORATE SOURCE: Department of Histology-Embryology, School of Medicine, Aristotle University of Thessaloniki, Greece
 SOURCE: Epitheorese Klinikes Farmakologias kai Farmakokinetikes, International Edition (2008), 22(2), 138-140
 CODEN: EFKEEB; ISSN: 1011-6583
 PUBLISHER: Pharmakon-Press
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB Hyaluronic acid (HA) is the most common glycosaminoglycan present in the extracellular matrix of epidermis and dermis. In the present study, we investigated the effect of HA on the migration of primary human skin fibroblasts in a wound healing model. We found that HA (1 .mu.g/mL) enhances in a time-dependent manner (2-48 h) the migration of human skin fibroblasts.. . . was assocd. with

an increased secretion of MMP-2 gelatinolytic activity and an induction in MMP-2 gene expression, as assessed by gelatin zymog. and RT-PCR, resp. Our results indicate that HA regulates the migration of human skin fibroblasts by stimulation of MMP-2 and may offer an addnl. target for pharmacol. intervention in wound healing.

L15 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:937262 HCAPLUS

DOCUMENT NUMBER: 146:428308

TITLE: Vocal Fold Tissue Repair in Vivo Using a Synthetic Extracellular Matrix

AUTHOR(S): Dufo, Suzy; Thibeault, Susan L.; Li, Wenhua; Shu, Xiao Zheng; Prestwich, Glenn D.

CORPORATE SOURCE: Head and Neck Surgery, Federation d'Otorhinolaryngology, Hopital de la Timone, Marseille, Fr.

SOURCE: Tissue Engineering (2006), 12(8), 2171-2180

CODEN: TIENFP; ISSN: 1076-3279

PUBLISHER: Mary Ann Liebert, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

OS.CITING REF COUNT: 26 THERE ARE 26 CAPLUS RECORDS THAT CITE THIS RECORD (26 CITINGS)

REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB Chem. modified hyaluronic acid (HA)-gelatin hydrogels have been documented to support attachment, growth, and proliferation of fibroblasts in vitro and to facilitate repair and engineering. . . of a synthetic extracellular matrix (sECM) that would promote wound repair and induce tissue regeneration in a rabbit vocal fold wound healing model. The sECM was formed using a thiol-modified semisynthetic glycosaminoglycan (GAG) derived of HA (Carbylan-SX) mixed with a thiolated gelatin deriv., co-cross-linked with poly(ethylene glycol) diacrylate to form Carbylan-GSX. Forty rabbits underwent vocal fold biopsy bilaterally. Rabbits were treated with Carbylan-SX, which lacks gelatin, or with Carbylan-GSX with different gelatin concns. (2.5%, 5%, 10%, and 20%) via unilateral injection of the vocal fold at the time of biopsy. Saline was. . . 2, and tissue biomechanics were evaluated. Hyaluronidase mRNA levels were found to be significantly elevated in for Carbylan-GSX 20% wt./wt. gelatin compared to controls. Both Carbylan-SX and Carbylan-GSX significantly improved tissue elasticity and viscosity. Carbylan-GSX contg. 5% wt./wt. gelatin showed the most promise as a scaffold material for vocal fold tissue regeneration.

L15 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:581463 HCAPLUS

DOCUMENT NUMBER: 145:432131

TITLE: Dermatan sulfate induces matrix metalloproteinase-2 and stimulates the migration of human primary fibroblasts

AUTHOR(S): Sioga, A.; Economou, D.; Varinou, L.; Klangas, I.; Papakonstantinou, E.; Economou, L.; Karakiulakis, G.

CORPORATE SOURCE: Department of Histology-Embryology, School of Medicine, Aristotle University of Thessaloniki, Greece

SOURCE: Epitheorese Klinikes Farmakologias kai Farmakokinetikes, International Edition (2006), 20(2), 319-321

CODEN: EFKEEB; ISSN: 1011-6583

PUBLISHER: Pharmakon-Press

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB Glycosaminoglycans are extracellular matrix mols. which mediate a no. of cellular functions such as proliferation, migration and response to growth factors.. . . (CSA), dermatan sulfate (DS), chondroitin sulfate C (CSC) and HA on the migration of primary human lung fibroblasts in a wound healing model. We found that DS and HA stimulate in a dose- (1-50 .mu.g) and time-(4-48 h) dependent manner the migration of fibroblasts. The DS-induced migration coincides with enhanced secretion of MMP-2, as revealed by gelatin zymog. in aliquots of the supernatants of cell cultures. Our results indicate that DS is involved in the migration of fibroblasts and the secretion of MMP-2, and may offer an alternative target for pharmacol. intervention in the process of wound healing.

L15 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2010 ACS ON STN

ACCESSION NUMBER: 2005:315162 HCAPLUS

DOCUMENT NUMBER: 143:32125

TITLE: Oxidized Chondroitin Sulfate-Cross-Linked Gelatin

Matrixes: A New Class of Hydrogels

AUTHOR(S): Dawlee, S.; Sugandhi, A.; Balakrishnan, Bijji; Labarre, D.; Jayakrishnan, A.

CORPORATE SOURCE: Polymer Chemistry Division, Biomedical Technology Wing, Sree Chitra Tirunal Institute for Medical Sciences and Technology, Kerala, 695 012, India

SOURCE: Biomacromolecules (2005), 6(4), 2040-2048

CODEN: BOMAF6; ISSN: 1525-7797

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB A naturally occurring glycosaminoglycan such as chondroitin-6-sulfate was first converted in to its aldehyde deriv. by periodate oxidn. and used as a crosslinking agent for gelatin giving rise to a new class of hydrogels. Crosslinking was predominantly due to Schiff's base formation between the .epsilon.-amino groups of lysine or hydroxylysine side groups of gelatin and the aldehyde groups in oxidized chondroitin sulfate. The hydrogels were prepd. from chondroitin sulfate with different degrees of oxidn. and gelatin . They were characterized for degree of crosslinking, crosslinking d., equil. swelling, water vapor transmission rate, internal structure, and blood-compatibility. Degree. . . 90% water and did not undergo dehydration rapidly. The hydrogels were nontoxic and blood-compatible. Since an important phase of early wound healing has been shown to involve secretion of glycosaminoglycans such as chondroitin sulfate by fibroblasts which form a hydrophilic matrix suitable for remodeling during healing, this new class of hydrogels prepd. from chondroitin sulfate and gelatin without employing any extraneous crosslinking agents are expected to have potential as wound dressing materials.

L15 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2010 ACS ON STN

ACCESSION NUMBER: 1986:614123 HCAPLUS

DOCUMENT NUMBER: 105:214123

ORIGINAL REFERENCE NO.: 105:34441a,34444a

TITLE: Crosslinked glycosaminoglycan composites as artificial organs

INVENTOR(S): Sakurai, Katsukyo; Ueno, Yoshio

PATENT ASSIGNEE(S): Seikagaku Kogyo Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61154567	A	19860714	JP 1984-273492	19841226
JP 05086234	B	19931210		

PRIORITY APPLN. INFO.: JP 1984-273492 19841226
 OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
 (1 CITINGS)

AB Composites of crosslinked glycosaminoglycans with collagens or
 gelatins are prepd. for use as an artificial organ. Thus, Na
 hyaluronate was crosslinked using epichlorohydrin. To the sol.
 crosslinked hyaluronic. . . and dried to have a thickness of 0.003 cm.
 The film covered on the skin lesion area in rats stimulated wound
 healing.

=> s (wound healing) (p) (polyoxyethylene) (p) (gelatin)

81106 WOUND
 12781 WOUNDS
 84977 WOUND
 (WOUND OR WOUNDS)
 52103 HEALING
 39 HEALINGS
 52122 HEALING
 (HEALING OR HEALINGS)
 32480 WOUND HEALING
 (WOUND(W)HEALING)
 57172 POLYOXYETHYLENE
 640 POLYOXYETHYLENES
 57373 POLYOXYETHYLENE
 (POLYOXYETHYLENE OR POLYOXYETHYLENES)
 79322 GELATIN
 39507 GELATINS
 94998 GELATIN
 (GELATIN OR GELATINS)

L17 1 (WOUND HEALING) (P) (POLYOXYETHYLENE) (P) (GELATIN)

=> d 117

L17 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2010 ACS ON STN
 AN 1986:213019 HCAPLUS
 DN 104:213019
 OREF 104:33665a,33668a
 TI Topical preparations containing urea and collagen
 IN Yanagida, Takeshi
 PA Shiseido Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61033105	A	19860217	JP 1984-153795	19840724
PRAI JP 1984-153795		19840724		

=> d 117 kwic

L17 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2010 ACS on STN

AB Preps. for skin application contain urea (softening, cell activation, wound healing), and collagen and/or its hydrolysis products (gelatin and others) as stabilizer. Thus, an emollient contained glycerin 20.0, propylene glycol 8.0, EtOH 5.0, polyoxyethylene oleyl ether 0.5, carboxyvinyl polymer 0.5, urea 1.0, Gelatin-1 3.0 Desamino Collagen 3.0, and perfumes and purified H2O to 100%.

=> d his full

(FILE 'HOME' ENTERED AT 09:45:57 ON 10 SEP 2010)

FILE 'HCAPLUS' ENTERED AT 09:49:11 ON 10 SEP 2010

L1 16 SEA ABB=ON PLU=ON (NONCROSSLINKED OR NON-CROSSLINKED OR NON
(2A) CROSS (2A) LINKED) (5A) GELATIN AND (CROSSLINKED OR CROSS
(2A) LINKED OR CROSS-LINKED) (5A) GELATIN

L2 41 SEA ABB=ON PLU=ON (NONCROSSLINKED OR NON-CROSSLINKED OR NON
(2A) CROSS (2A) LINKED) (P) (CROSSLINKED OR CROSS (2A) LINKED
OR CROSS-LINKED) (P) GELATIN

L3 7 SEA ABB=ON PLU=ON (NONCROSSLINKED OR NON-CROSSLINKED OR NON
(2A) CROSS (2A) LINKED) (P) (CROSSLINKED OR CROSS (2A) LINKED
OR CROSS-LINKED) (P) GELATIN (P) MIXTURE
D L3 IBIB KWIC 1-

L4 0 SEA ABB=ON PLU=ON (NONCROSSLINKED OR NON-CROSSLINKED OR NON
(2A) CROSS (2A) LINKED) (P) GELATIN AND (SWOLLEN OR COLLOID
OR HYDROCOLLOID OR COLLOIDAL) (5A) (CROSSLINKED OR CROSS (2A)
LINKED OR CROSS-LINKED) (P) GELATIN

L5 4 SEA ABB=ON PLU=ON (NONCROSSLINKED OR NON-CROSSLINKED OR NON
(2A) CROSS (2A) LINKED) (P) GELATIN AND (GEL OR GELLED) (5A)
(CROSSLINKED OR CROSS (2A) LINKED OR CROSS-LINKED) (P) GELATIN
D L5 IBIB 1-
D L5 4 IBIB KWIC

L6 0 SEA ABB=ON PLU=ON (NONCROSSLINKED OR NON-CROSSLINKED OR NON
(2A) CROSS (2A) LINKED) (P) GELATIN AND (FRAGMENT OR FRAGMENTED
OR DISRUPTED OR PARTICLE OR PARTICULATE) (P) (GEL OR GELLED)
(5A) (CROSSLINKED OR CROSS (2A) LINKED OR CROSS-LINKED) (P)
GELATIN

L7 0 SEA ABB=ON PLU=ON (NONCROSSLINKED OR NON-CROSSLINKED OR NON
(2A) CROSS (2A) LINKED) (P) GELATIN AND (FRAGMENT OR FRAGMENTED
OR DISRUPTED OR PARTICLE OR PARTICULATE) (P) (HYDRATED) (5A)
(CROSSLINKED OR CROSS (2A) LINKED OR CROSS-LINKED) (P)
GELATIN

L8 3 SEA ABB=ON PLU=ON (NONCROSSLINKED OR NON-CROSSLINKED OR NON
(2A) CROSS (2A) LINKED) (P) GELATIN AND (FRAGMENT OR FRAGMENTED
OR DISRUPTED OR PARTICLE OR PARTICULATE) (5A) (CROSSLINKED
OR CROSS (2A) LINKED OR CROSS-LINKED) (P) GELATIN
D L8 IBIB KWIC 1-

L9 0 SEA ABB=ON PLU=ON L3 AND POLYOXYETHYLENE

L10 0 SEA ABB=ON PLU=ON L3 AND GLUCOSAMINOGLYCAN

L11 0 SEA ABB=ON PLU=ON L3 AND DEXTRAN

L12 9 SEA ABB=ON PLU=ON (FRAGMENT OR FRAGMENTED OR DISRUPTED OR
PARTICLE OR PARTICULATE) (P) (HYDROGEL OR HYDROCOLLOIDAL OR
HYDROCOLLOID OR HYDRATED) (5A) (CROSSLINKED OR CROSS (2A)
LINKED OR CROSS-LINKED) (P) GELATIN

L13 3 SEA ABB=ON PLU=ON L12 AND (DEXTRAN OR GLYCOSAMINOGLYCAN OR
POLYSACCHARIDE)
D L13 IBIB KWIC 1-

L14 281 SEA ABB=ON PLU=ON (WOUND HEALING) (P) (GLYCOSAMINOGLYCAN)
 L15 5 SEA ABB=ON PLU=ON (WOUND HEALING) (P) (GLYCOSAMINOGLYCAN)
 (P) (GELATIN)
 L16 0 SEA ABB=ON PLU=ON L15 AND POLYOXYETHYLENE
 D L15 SCAN
 D L15 IBIB KWIC 1-
 L17 1 SEA ABB=ON PLU=ON (WOUND HEALING) (P) (POLYOXYETHYLENE) (P)
 (GELATIN)
 D L17
 D L17 KWIC

FILE HOME

FILE HCAPLUS

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	ENTRY	SESSION
CA SUBSCRIBER PRICE	-16.15	-16.15

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